

NICHOLAS FREEMAN MEHRLE

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EDUCATION

Johns Hopkins University

Baltimore, MD

M.A. in Physics

Expected May 2016

B.S. in Physics, Math, Applied Math and Statistics (Triple Major)

Expected May 2016

– GPA: 3.90/4.0

RESEARCH

Cosmology Large Angular Scale Surveyor

Baltimore, MD

Research Assistant - Department of Physics and Astronomy

May 2013 - Present

– Development of variable-delay polarization modulator

CERN

Geneva, Switzerland

Research Assistant - CMS Experiment

Jan - May 2015

– Statistical analysis to discriminate production methods of Higgs boson

EMPLOYMENT

Johns Hopkins University

Baltimore, MD

Teaching Assistant - Department of Mathematics

September 2015 - Present

– Differential Equations

Optiver US LLC

Chicago, IL

Trading Intern

June - August 2015

– Simulated high frequency trading of financial options

Johns Hopkins University Applied Physics Lab

Laurel, MD

Technical Intern - Applied Concepts and Technology Group

May - August 2014

– Algorithm development, modeling and simulation

Johns Hopkins University

Baltimore, MD

Tutor - Learning Den

September 2013 - May 2014

– Newtonian mechanics and electricity and magnetism

PUBLICATIONS

– *CLASS: The Cosmology Large Angular Scale Surveyor*. With Thomas Essinger-Hileman et al. arXiv reference: 1408.4788.

– *The Cosmology Large Angular Scale Surveyor (CLASS): 38 GHz detector array of bolometric polarimeters*. With John W. Appel et al. arXiv reference: 1408.4789.

MISCELLANEOUS

Testing: Physics GRE - 960/990 (91st percentile)

Programming: Python, Java, C, C++, Matlab, Mathematica, JavaScript, HTML
CSS, L^AT_EX, ROOT, VBA

Activities: Mock Trial, Wading Team, Society of Physics Students,
Hopkins Hackathon